

# EUROPEAN PATENT OFFICE

## Patent Abstracts of Japan

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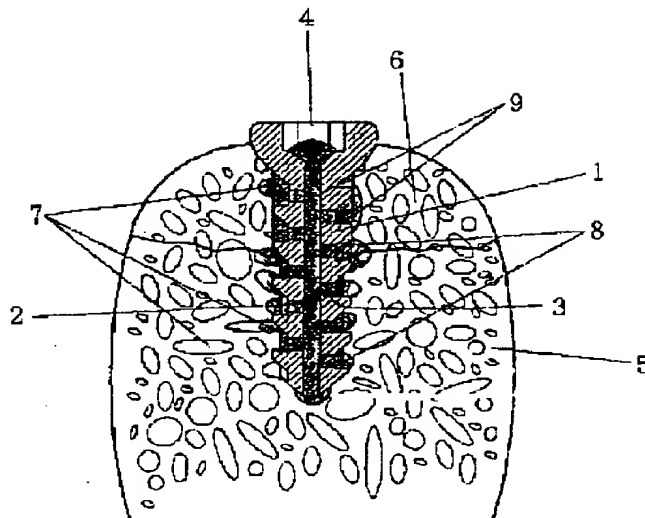
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APPLICANT : TERUMO CORP;

INVENTOR : MATSUMOTO ATSUSHI;

INT.CL. : A61B 17/58 A61F 2/28

TITLE : BONE FIXING MEANS



**ABSTRACT :** PURPOSE: To improve strength of fixing bone pieces, etc., by internally providing a bone fixing means provided with passage communicating with the parts to be embedded into the bone from a part exposed outside the bone, and further, providing the parts to be embedded into the bone with plural holes communicating with the outside surface from the flow passages.

**CONSTITUTION:** The bone 5 and the bone pieces 6 are compressed and fixed and, thereafter, a resin 9 is press fitted through the passages 2 from an aperture 4 opening at a screw head exposed outside the bone of the bone fixing means 1 in the case of fixing the bone pieces 6 and bone 5 in a fracture treatment, etc. The resin 9 press fitted into the passages is press fitted from holes 3 opened in the bone into clearances generated at the time of boring or thread cutting 8 between the bone fixing means 1 and osteotissues and is further press fitted partially into the soft tissue parts 7 of the spongy osteotissues. The resin 9 softens after proper time but the resin 9 is press fitted, even slightly, into the osteotissues, intrudes into part of the soft tissue parts 7, on the periphery of the bone fixing means 1, which does not substantially contribute to the fixing strength by which the strength of the osteotissues on the periphery of the bone fixing means 1 is enhanced.

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